

FORT BENNING GA

Latitude = 32.33 N

WMO No. 722250

Longitude = 85.00 W

Elevation = 233 feet

Period of Record = 1967 to 1996

Average Pressure = 29.78 inches Hg

Design Criteria Data

	Design Value	Mean Coincident (Average) Values			
		Wet Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Dry Bulb Temperature (T)	(°F)				
Median of Extreme Highs	100	78	106	5.6	W
0.4% Occurrence	96	77	109	4.7	W
1.0% Occurrence	94	76	109	4.3	W
2.0% Occurrence	92	76	110	4.4	W
Mean Daily Range	23	-	-	-	-
97.5% Occurrence	30	28	17	2.3	NW
99.0% Occurrence	26	24	14	2.6	NW
99.6% Occurrence	23	21	12	2.9	NW
Median of Extreme Lows	16	14	8	4.1	WNW
	Design Value	Mean Coincident (Average) Values			
		Dry Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Wet Bulb Temperature (T_{wb})	(°F)				
Median of Extreme Highs	82	92	149	3.3	W
0.4% Occurrence	80	91	137	3.6	W
1.0% Occurrence	79	90	132	3.5	W
2.0% Occurrence	78	89	127	3.6	W
	Design Value	Mean Coincident (Average) Values			
		Dry Bulb Temperature (°F)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Humidity Ratio (HR)	(gr/lb)				
Median of Extreme Highs	158	89	1.04	2.7	S
0.4% Occurrence	142	85	0.94	2.5	W
1.0% Occurrence	137	84	0.90	2.5	W
2.0% Occurrence	132	83	0.88	2.4	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		155	1463	1373	3063

Other Site Data

Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
11	4.0	90	4.9 + 1.6
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
66.1	0	1	38

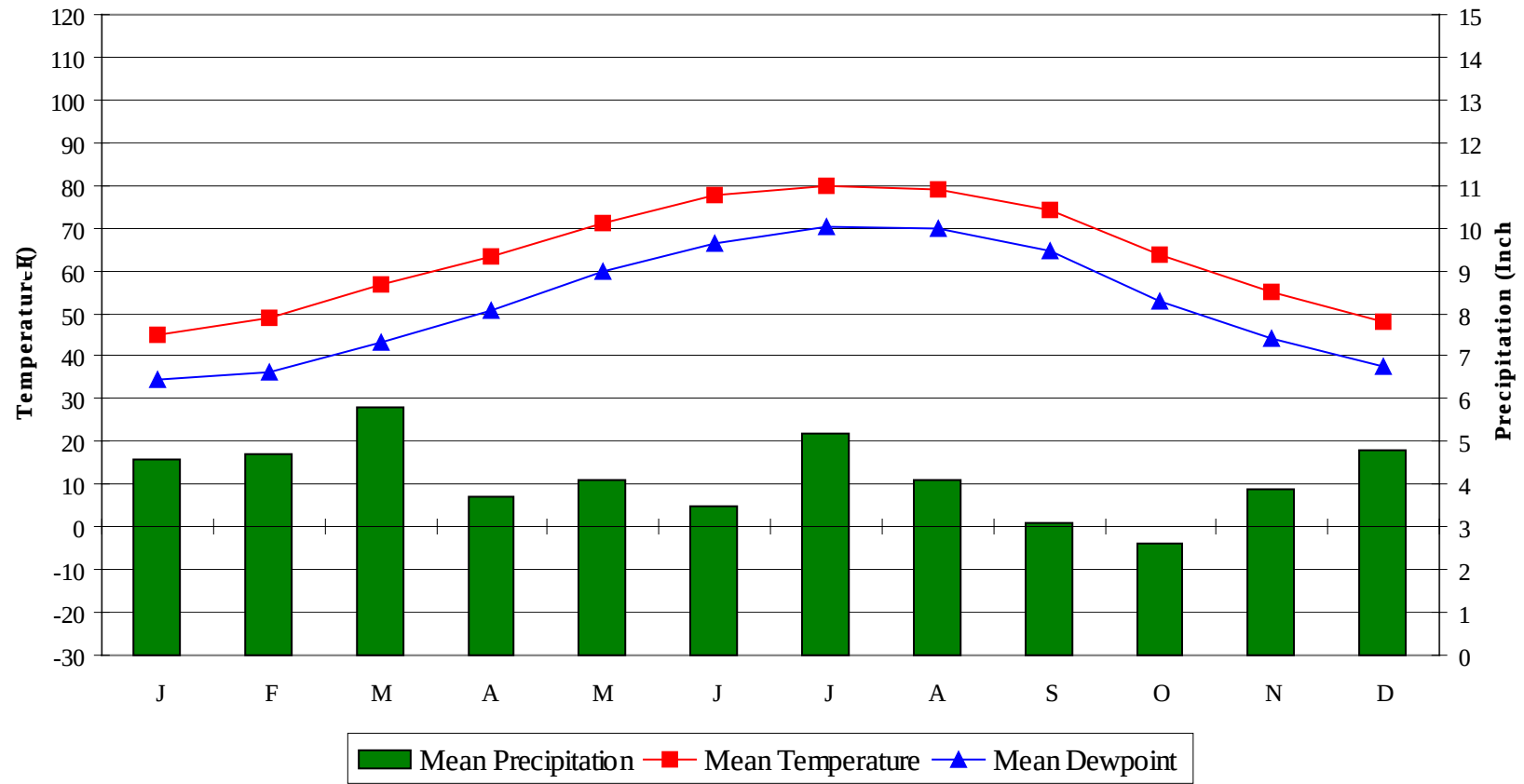
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

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Average Annual Climate

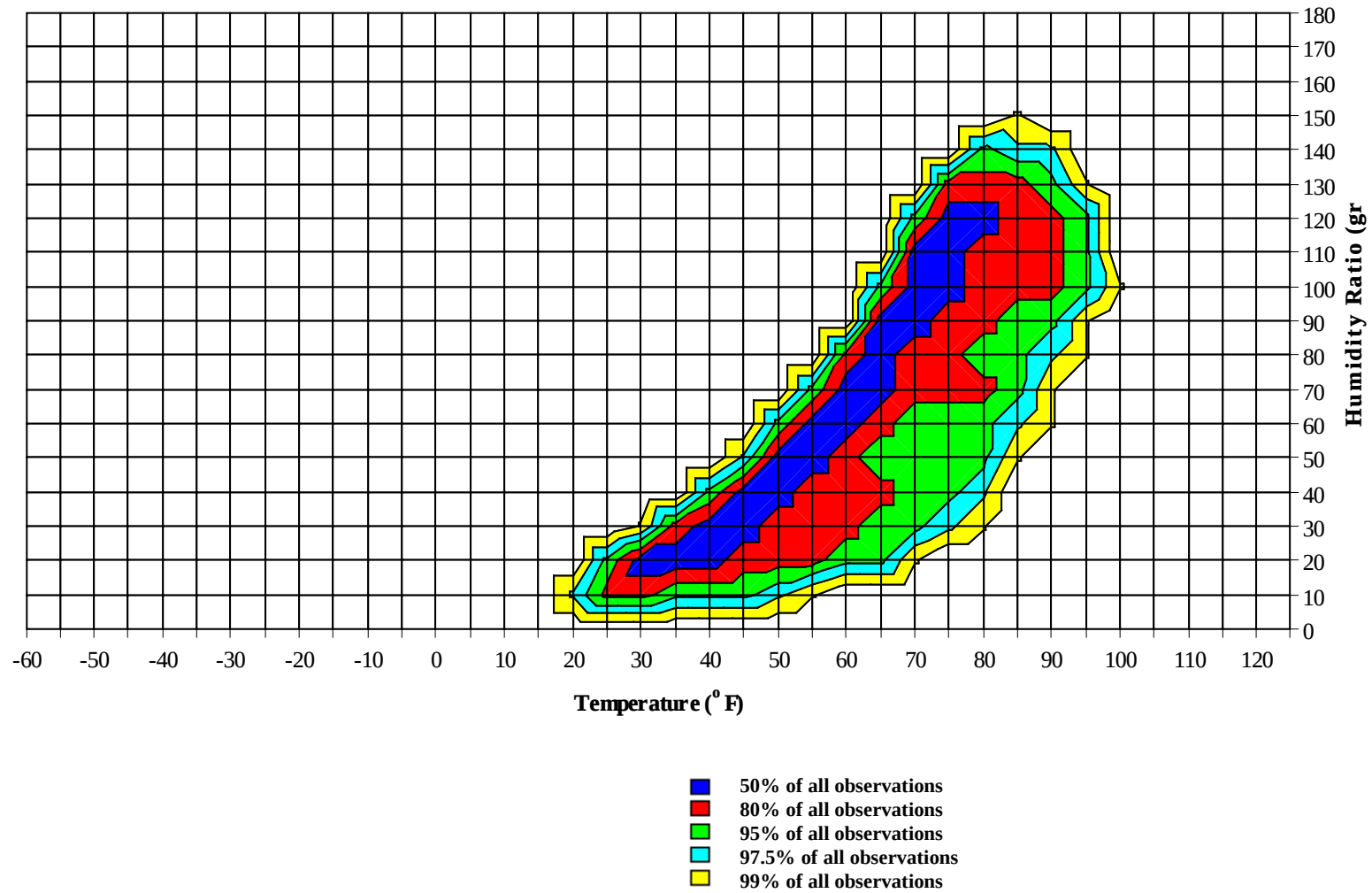


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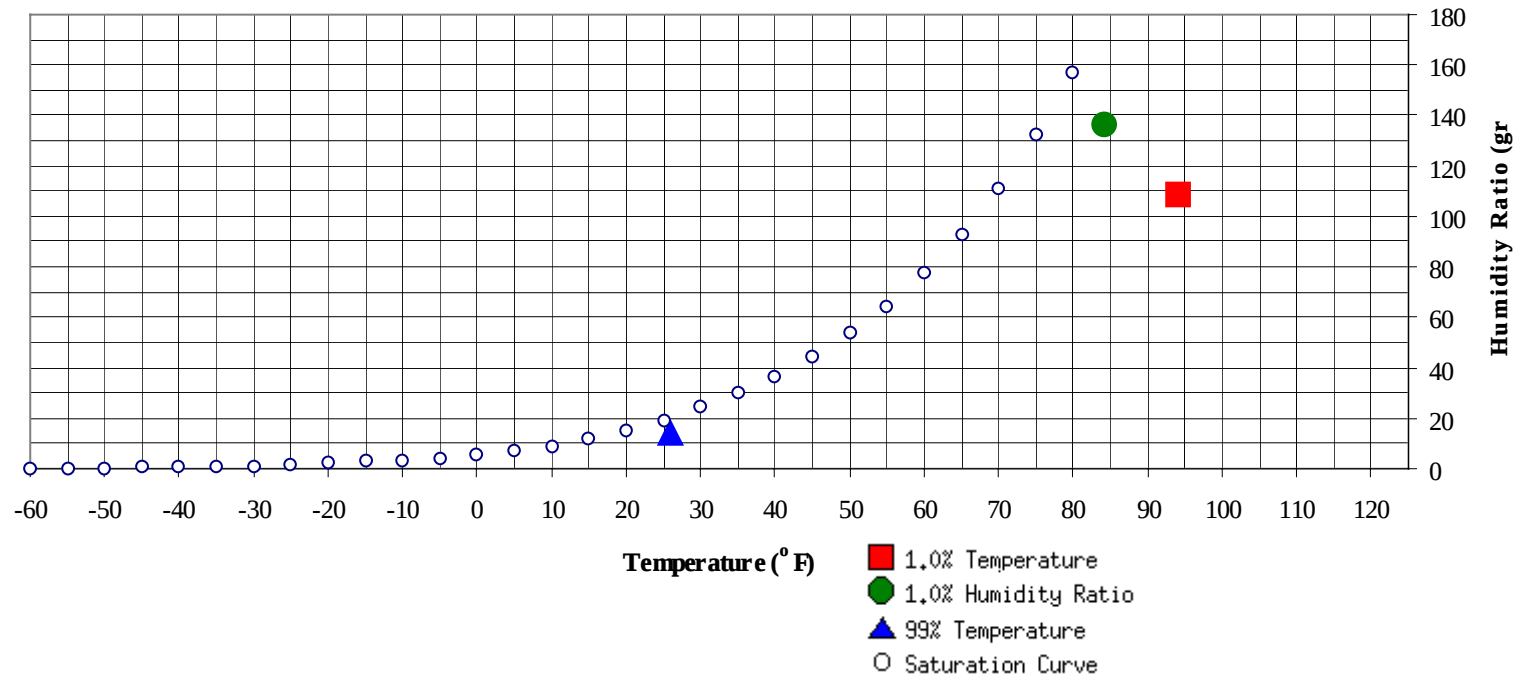
Long Term Psychrometric Summary



FORT BENNING

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Psychrometric Summary of Peak Design Values

	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)	1.0% Humidity Ratio	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
99% Dry Bulb	26	13.9	8.4		136.5	84.1	78.1	75.9	41.6

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	94	109	76.3	39.7

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Dry-Bulb Temperature Hours For An Average Year (Sheet 1 of 5)

Period of Record = 1967 to 1996

Temperature Range (°F)	January					February					March				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
100 / 104															
95 / 99															
90 / 94													0	0	68.0
85 / 89												2	1	3	67.4
80 / 84							2	1	2	62.4		13	5	18	64.5
75 / 79		2	1	2	64.8		7	3	10	62.4	0	28	15	44	62.2
70 / 74	0	9	3	12	61.2	0	17	8	25	59.8	5	38	25	67	60.4
65 / 69	2	16	9	28	58.4	5	25	18	48	57.7	12	37	30	80	57.9
60 / 64	11	27	18	56	56.0	16	31	26	72	55.3	27	38	41	106	55.6
55 / 59	13	34	29	75	51.3	18	29	28	75	50.5	34	33	40	106	51.6
50 / 54	24	41	39	103	47.1	22	34	33	89	46.0	38	26	35	99	47.1
45 / 49	34	40	41	115	42.8	26	29	33	88	42.0	40	17	26	83	42.9
40 / 44	36	33	36	105	37.8	31	24	31	87	37.7	37	10	18	66	38.6
35 / 39	33	23	31	86	33.2	34	15	24	73	33.4	28	3	9	40	34.1
30 / 34	41	16	24	80	29.1	36	8	14	58	29.2	20	1	2	23	29.9
25 / 29	35	6	13	54	24.8	25	3	5	33	24.8	6	1	1	7	25.5
20 / 24	15	2	3	19	20.0	9	1	1	10	20.3	1	0	0	2	20.4
15 / 19	4	1	1	5	15.3	2	0	0	2	15.8	0			0	16.6
10 / 14	1	0	0	2	10.1	1	0		1	12.0					
5 / 9	0	0	0	0	5.4	0			0	8.3					
0 / 4	0	0		0	0.3										

Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

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Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)

Period of Record = 1967 to 1996

Temperature Range (°F)	April					May					June				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
100 / 104												3	1	4	77.4
95 / 99							1	0	1	73.2		14	6	20	75.7
90 / 94		1	0	1	68.5		13	4	16	73.0		43	17	60	74.6
85 / 89		12	4	17	67.9		40	17	57	71.0	0	70	31	101	73.6
80 / 84		36	16	52	65.9	0	64	29	93	68.6	5	61	40	106	72.1
75 / 79	0	46	22	69	63.5	5	60	39	103	67.2	37	35	61	133	71.3
70 / 74	6	49	35	90	61.6	38	43	61	142	66.3	99	13	57	169	69.1
65 / 69	25	43	47	115	60.3	71	19	52	143	63.5	63	2	22	87	65.0
60 / 64	47	28	44	119	57.1	59	6	26	90	59.2	26	0	5	31	60.1
55 / 59	47	15	33	95	52.7	38	2	15	54	54.6	8	0	1	8	55.5
50 / 54	44	7	20	71	48.8	25	0	5	31	50.2	1			1	50.7
45 / 49	34	3	12	49	44.5	10		1	11	45.9					
40 / 44	24	0	5	30	40.1	3			3	42.1					
35 / 39	11	0	1	12	35.5										
30 / 34	3		0	3	31.6										
25 / 29	0			0	29.0										
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															

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Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)**Period of Record = 1967 to 1996**

Temperature Range (°F)	July					August					September				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
100 / 104		3	1	4	78.3		1	0	1	77.9		0	0	0	75.6
95 / 99		22	8	29	77.5		12	4	16	77.5		4	1	5	75.9
90 / 94		60	22	82	76.6		57	19	76	76.7		27	7	33	75.3
85 / 89	0	70	29	99	75.9		73	31	104	75.6		56	18	74	73.3
80 / 84	8	55	49	112	74.7	2	60	47	109	74.4	0	60	31	91	71.7
75 / 79	71	31	85	187	73.0	59	35	82	175	73.0	20	50	61	130	70.8
70 / 74	141	8	52	201	70.1	146	9	57	212	70.2	91	27	67	185	68.7
65 / 69	23	0	3	26	66.0	33	1	7	42	65.7	65	11	30	106	64.3
60 / 64	3		0	4	60.9	7	0	1	9	60.6	33	5	16	54	59.1
55 / 59						1			1	58.1	18	1	7	26	54.7
50 / 54											9	0	2	11	50.1
45 / 49											3	0	0	3	45.5
40 / 44											1		0	1	41.6
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															

Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

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Dry-Bulb Temperature Hours For An Average Year (Sheet 4 of 5)

Period of Record = 1967 to 1996

Temperature Range (°F)	October					November					December				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
100 / 104															
95 / 99															
90 / 94		2	0	2	72.7										
85 / 89		15	3	18	70.2		1	0	1	68.1					
80 / 84	0	38	10	48	67.8		8	1	9	67.0		1	0	1	69.4
75 / 79	1	47	22	70	65.3	0	24	6	30	64.9	0	6	1	8	65.6
70 / 74	19	54	41	114	63.9	5	36	18	59	62.7	2	15	6	23	63.5
65 / 69	33	42	45	120	61.0	14	37	27	78	60.1	8	23	13	44	60.5
60 / 64	44	27	44	114	57.5	28	40	37	105	56.3	10	32	24	67	55.8
55 / 59	43	14	36	93	53.4	27	35	35	98	51.4	19	38	32	89	51.5
50 / 54	36	7	24	67	49.0	30	26	35	90	47.4	29	40	38	107	47.1
45 / 49	33	2	15	50	44.5	30	18	33	82	43.0	34	38	42	113	42.6
40 / 44	24	1	7	31	40.1	36	10	25	71	38.8	33	26	36	95	37.9
35 / 39	12	0	1	13	35.7	32	4	16	52	34.6	32	16	28	76	33.9
30 / 34	3		0	3	31.5	26	1	7	35	30.3	38	8	19	64	29.5
25 / 29						10	0	1	11	26.2	32	3	9	44	25.0
20 / 24						0			0	21.9	8	1	1	10	20.3
15 / 19											2	0	1	3	15.4
10 / 14											1	0	0	1	10.1
5 / 9											0	0		0	6.0
0 / 4															

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Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)
Period of Record = 1967 to 1996

Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
100 / 104		7	2	9	77.8
95 / 99		52	18	70	76.8
90 / 94		201	69	269	75.8
85 / 89	1	339	135	474	73.8
80 / 84	16	397	228	641	71.2
75 / 79	193	369	397	959	69.7
70 / 74	551	318	428	1298	67.0
65 / 69	355	257	304	917	61.8
60 / 64	311	234	282	827	57.0
55 / 59	265	200	255	721	52.2
50 / 54	258	181	230	669	47.6
45 / 49	243	148	203	594	43.0
40 / 44	224	104	159	487	38.4
35 / 39	182	61	110	352	33.9
30 / 34	166	34	66	266	29.5
25 / 29	108	13	29	149	25.0
20 / 24	33	3	5	41	20.2
15 / 19	7	1	2	10	15.5
10 / 14	3	0	0	4	10.5
5 / 9	1	0	0	1	6.3
0 / 4	0	0		0	0.3

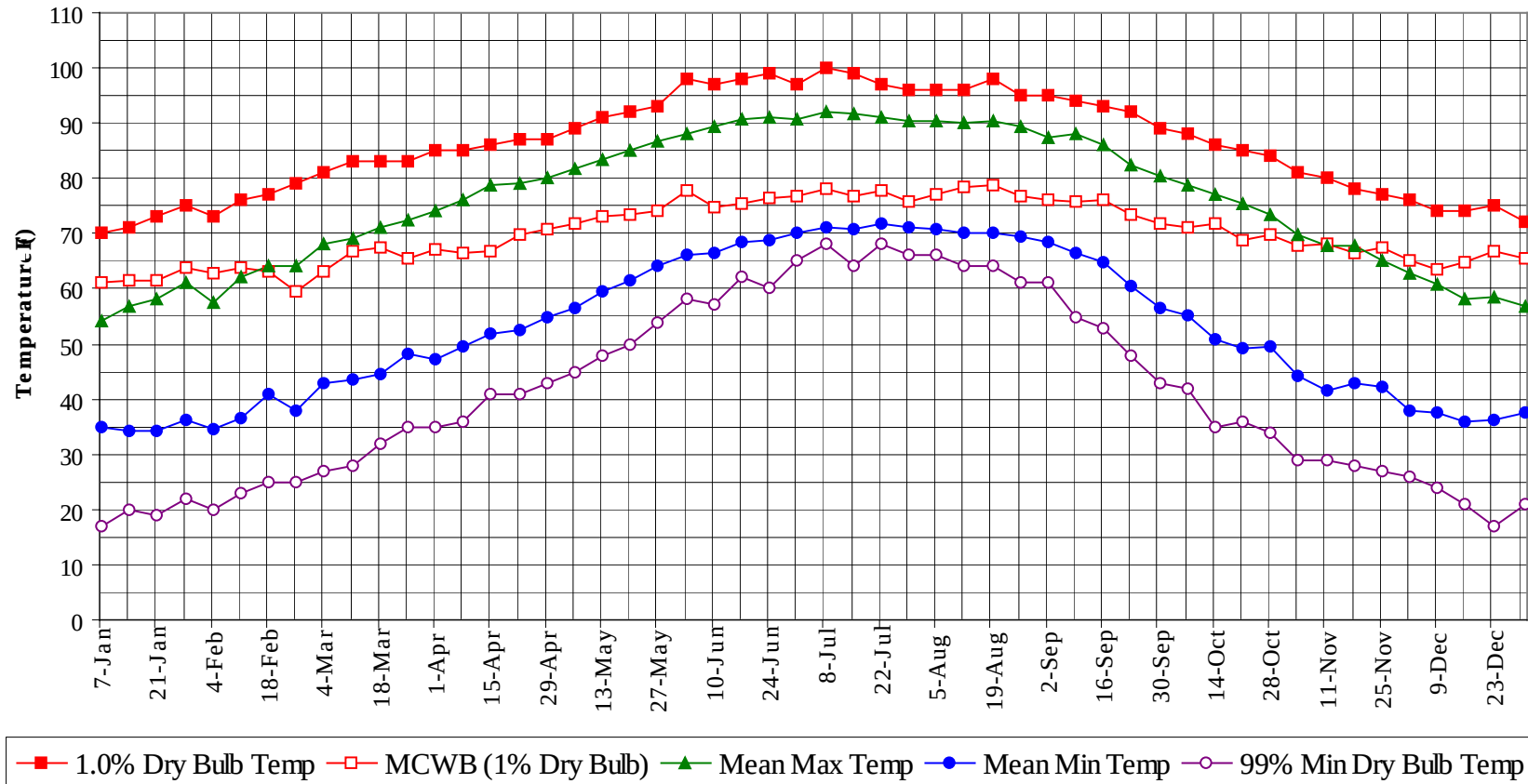
Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

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Annual Summary of Temperatures

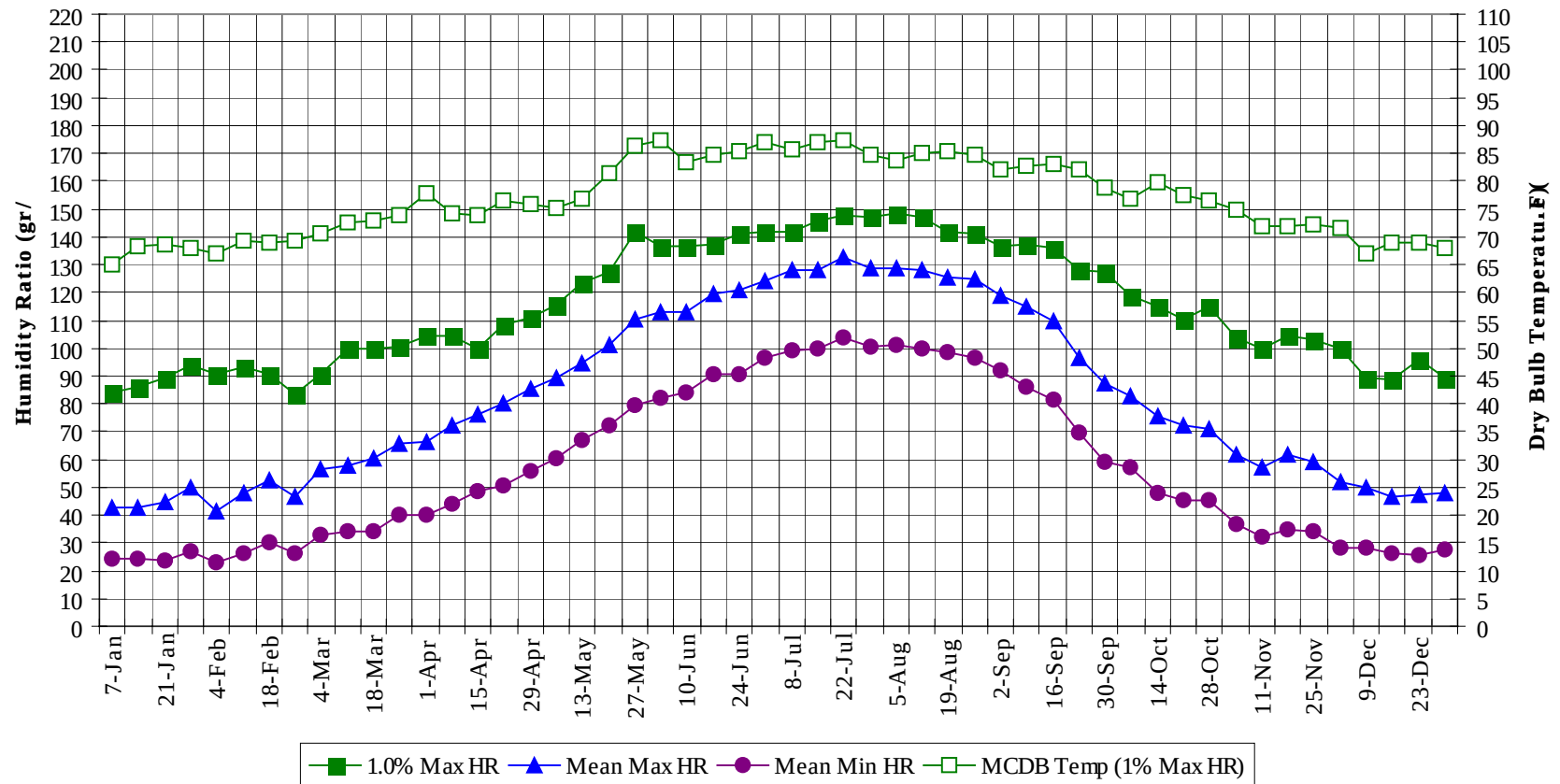


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Long Term Humidity and Dry Bulb Temperature Summary



FORT BENNING**GA****WMO No. 722250****Long Term Dry Bulb Temperature and Humidity Summary**

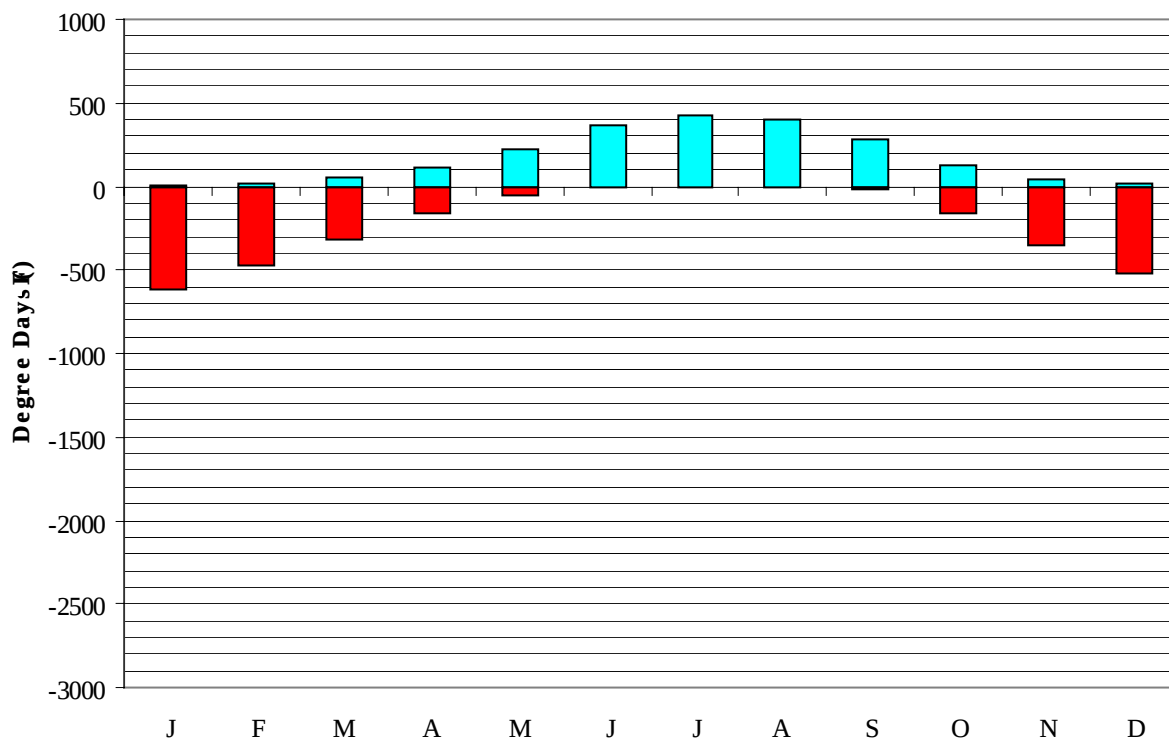
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	70.0	61.0	54.2	34.8	17.0	84.0	65.0	42.6	24.3
14-Jan	71.0	61.4	57.0	34.2	20.0	86.1	68.1	43.0	24.2
21-Jan	73.0	61.5	58.1	34.4	19.0	89.6	68.7	44.9	23.8
28-Jan	75.0	63.7	61.2	36.4	22.0	93.8	68.1	50.1	27.2
4-Feb	73.0	62.9	57.5	34.4	20.0	90.3	67.1	41.6	23.0
11-Feb	76.0	63.9	62.2	36.7	23.0	93.1	69.3	47.8	26.0
18-Feb	77.0	63.2	64.2	40.7	25.0	90.3	69.1	52.6	30.5
25-Feb	79.0	59.6	64.1	38.0	25.0	83.3	69.3	46.3	26.0
4-Mar	81.0	63.3	68.3	42.9	27.0	90.3	70.6	56.2	33.1
11-Mar	83.0	66.7	69.2	43.6	28.0	100.1	72.7	57.9	34.2
18-Mar	83.0	67.4	71.1	44.5	32.0	100.1	73.0	60.7	34.1
25-Mar	83.0	65.4	72.5	48.1	35.0	100.8	73.7	65.4	40.2
1-Apr	85.0	67.0	74.2	47.3	35.0	104.3	77.7	66.0	39.8
8-Apr	85.0	66.3	76.0	49.6	36.0	104.3	74.1	72.3	44.3
15-Apr	86.0	66.8	78.7	51.9	41.0	100.1	73.9	76.0	48.6
22-Apr	87.0	69.9	79.0	52.5	41.0	108.5	76.5	79.9	50.4
29-Apr	87.0	70.8	80.2	54.8	43.0	111.3	75.8	85.2	55.9
6-May	89.0	71.7	81.6	56.6	45.0	115.5	75.2	89.4	60.1
13-May	91.0	73.2	83.6	59.4	48.0	123.2	76.9	94.4	66.8
20-May	92.0	73.4	84.9	61.4	50.0	127.4	81.5	101.5	72.1
27-May	93.0	74.1	86.9	64.2	54.0	142.1	86.4	110.5	79.7
3-Jun	98.0	77.6	88.1	66.2	58.0	136.5	87.5	113.3	82.3
10-Jun	97.0	74.7	89.4	66.3	57.0	136.5	83.5	112.9	84.3
17-Jun	98.0	75.6	90.8	68.5	62.0	137.2	84.6	119.3	90.7
24-Jun	99.0	76.6	91.0	68.8	60.0	141.4	85.4	121.0	90.9
1-Jul	97.0	76.8	90.9	70.2	65.0	142.1	87.0	124.0	96.8
8-Jul	100.0	78.0	92.1	71.2	68.0	142.1	85.9	128.4	99.3
15-Jul	99.0	76.8	91.6	70.9	64.0	145.6	87.0	128.0	100.1
22-Jul	97.0	77.8	91.0	71.7	68.0	147.7	87.3	132.4	103.5
29-Jul	96.0	75.8	90.5	71.2	66.0	147.0	84.6	128.8	100.6
5-Aug	96.0	77.2	90.3	70.8	66.0	148.4	83.6	128.7	101.3
12-Aug	96.0	78.4	90.0	70.1	64.0	147.0	84.9	128.0	99.6
19-Aug	98.0	78.9	90.5	70.2	64.0	142.1	85.5	125.7	98.7
26-Aug	95.0	76.8	89.5	69.6	61.0	141.4	84.8	124.5	96.2
2-Sep	95.0	76.3	87.6	68.3	61.0	136.5	82.2	118.9	91.9
9-Sep	94.0	75.6	88.0	66.4	55.0	137.2	82.6	114.9	86.4
16-Sep	93.0	76.1	86.0	64.9	53.0	135.8	83.2	110.0	81.4
23-Sep	92.0	73.4	82.4	60.6	48.0	128.1	82.0	96.4	69.4
30-Sep	89.0	71.9	80.6	56.7	43.0	127.4	78.7	87.7	59.4
7-Oct	88.0	71.1	78.7	55.3	42.0	119.0	77.0	82.9	57.3
14-Oct	86.0	71.7	77.1	50.7	35.0	114.8	79.9	75.4	48.0
21-Oct	85.0	68.8	75.6	49.1	36.0	110.6	77.5	72.4	45.2
28-Oct	84.0	69.7	73.5	49.6	34.0	114.8	76.5	70.9	45.5
4-Nov	81.0	67.7	69.7	44.1	29.0	103.6	74.7	61.9	36.5
11-Nov	80.0	68.2	67.9	41.5	29.0	100.1	71.8	57.1	32.3
18-Nov	78.0	66.4	67.9	42.8	28.0	104.3	72.0	62.0	34.6
25-Nov	77.0	67.4	65.1	42.1	27.0	102.9	72.1	59.0	34.4
2-Dec	76.0	65.2	62.7	38.0	26.0	100.1	71.4	51.6	28.3
9-Dec	74.0	63.4	60.7	37.7	24.0	89.6	67.0	50.2	28.0
16-Dec	74.0	64.9	58.2	35.9	21.0	88.9	68.8	46.7	26.5
23-Dec	75.0	66.8	58.6	36.2	17.0	95.9	69.1	47.6	25.9
31-Dec	72.0	65.5	56.8	37.4	21.0	89.6	67.9	48.0	27.6

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Degree Days, Heating and Cooling
(Base 65°F)



■ Mean Cooling Degree Days ■ Mean Heating Degree Days

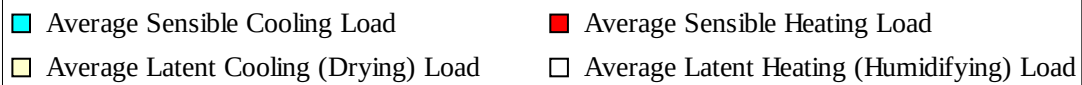
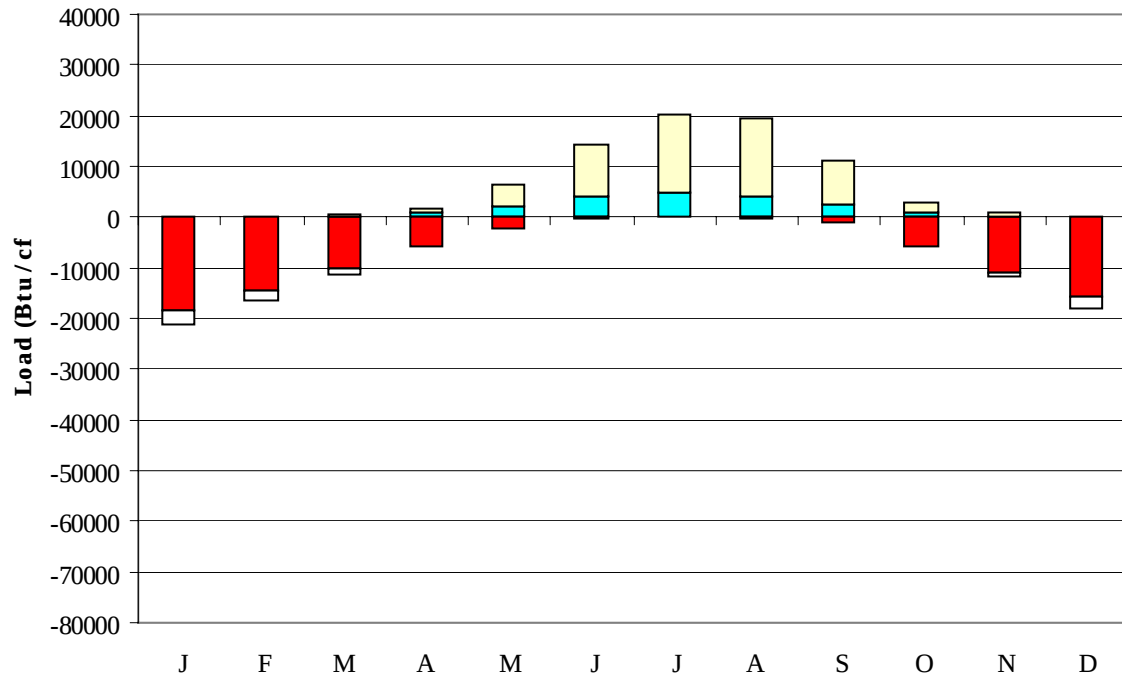
	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	6	621
FEB	15	477
MAR	57	320
APR	113	165
MAY	224	54
JUN	363	7
JUL	430	0
AUG	403	1
SEP	282	23
OCT	120	166
NOV	41	349
DEC	12	526
ANN	2066	2709

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Average Ventilation and Infiltration Loads
(Outside Air vs. 75°F, 60% RH summer; 68°F, 30% RH winter)



	Average Sensible Cooling Load (Btu/cfm)	Average Sensible Heating Load (Btu/cfm)	Average Latent Cooling Load (Btu/cfm)	Average Latent Heating Load (Btu/cfm)
JAN	3	-18412	78	-2830
FEB	29	-14345	135	-2218
MAR	244	-10122	328	-1034
APR	739	-5662	898	-259
MAY	1913	-2195	4460	-2
JUN	3989	-380	10208	0
JUL	4715	-36	15641	0
AUG	4209	-92	15158	0
SEP	2570	-1019	8775	-1
OCT	743	-5667	1962	-157
NOV	117	-10922	642	-964
DEC	14	-15789	225	-2098
ANN	19285	-84641	58510	-9563

Average Annual Solar Radiation – Nearest Available Site

(Source: National Renewable Energy Laboratory, Golden CO, 1995)

City: COLUMBUS
 State: GA
 WBAN No: 93842
 Lat(N): 32.52
 Long(W): 84.95
 Elev(ft): 446

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.978
 Vert Gap: 0.659

AVERAGE INCIDENT SOLAR RADIATION (Btu/sq.ft./day), Percentage Uncertainty = 9		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ	Global	860	1120	1450	1820	1970	2010	1900	1790	1550	1320	970	800	1460
	Std Dev	59	99	115	114	121	129	151	98	107	110	80	64	37
	Minimum	760	960	1220	1610	1730	1770	1510	1590	1350	1090	750	670	1360
	Maximum	1020	1340	1620	2040	2330	2210	2140	1960	1740	1540	1110	910	1520
	Diffuse	380	460	590	690	830	900	920	850	710	500	400	350	630
Clear Day	Global	1220	1540	1950	2320	2520	2570	2500	2310	1990	1590	1240	1100	1910
NORTH	Global	250	300	380	460	570	630	590	510	420	340	270	230	410
	Diffuse	250	300	380	450	510	540	530	490	420	340	270	230	390
Clear Day	Global	220	270	350	440	590	680	630	490	400	320	240	210	400
EAST	Global	530	680	830	1000	1060	1070	1020	990	870	790	600	500	830
	Diffuse	290	360	460	550	610	640	640	600	520	420	320	270	470
Clear Day	Global	850	1020	1210	1330	1360	1350	1320	1260	1150	990	830	760	1120
SOUTH	Global	1140	1190	1120	940	730	650	670	820	1020	1280	1230	1150	990
	Diffuse	390	440	510	540	550	550	560	570	560	500	420	370	500
Clear Day	Global	2040	1950	1640	1180	830	700	750	1010	1400	1740	1910	1960	1420
WEST	Global	560	710	880	1040	1060	1040	980	960	880	800	620	530	840
	Diffuse	300	370	470	560	620	650	640	610	530	420	330	280	480
Clear Day	Global	850	1020	1210	1330	1360	1350	1320	1260	1150	990	830	760	1120

Average Annual Solar Heat and Illumination – Nearest Available Site

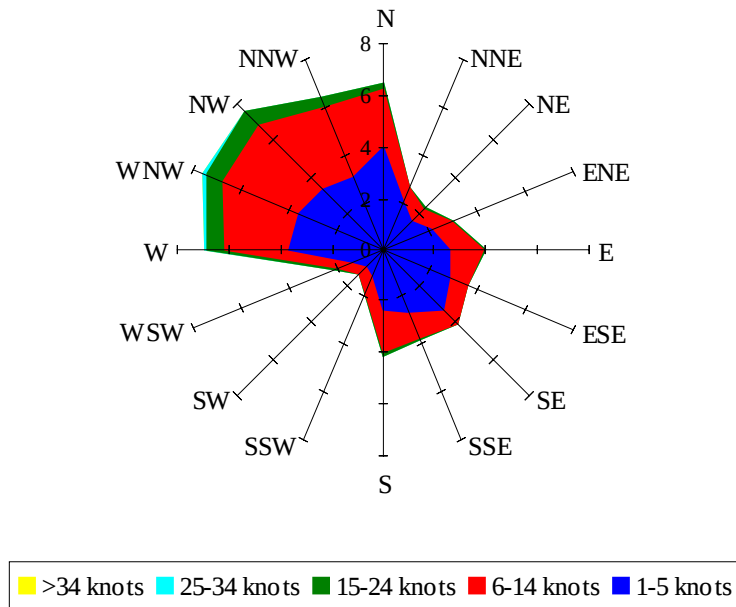
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

AVERAGE TRANSMITTED SOLAR RADIATION (Btu/sq.ft./day) FOR DOUBLE GLAZING, Percentage Uncertainty = 9		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ	Unshaded	580	780	1040	1320	1440	1470	1380	1300	1110	940	670	530	1050
NORTH	Unshaded	170	210	260	310	370	410	390	340	290	230	180	160	280
	Shaded	140	180	230	270	320	340	330	290	250	200	160	130	240
EAST	Unshaded	370	470	590	710	750	760	720	700	620	560	420	340	580
	Shaded	310	390	480	570	600	600	570	560	500	460	350	290	470
SOUTH	Unshaded	840	860	750	580	440	400	420	500	660	900	910	860	680
	Shaded	790	690	400	320	330	330	330	340	340	620	820	830	510
WEST	Unshaded	390	500	620	740	750	740	690	680	630	570	430	370	590
	Shaded	330	420	510	600	600	590	550	550	500	470	360	310	480

AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9											
		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	31	72	91	81	45	30	74	99	101	77
	M.Cloudy	18	44	57	53	29	19	49	76	78	55
NORTH	M.Clear	8	14	16	15	11	22	17	18	18	17
	M.Cloudy	7	15	18	17	11	12	17	20	20	17
EAST	M.Clear	72	70	24	15	11	59	78	47	18	17
	M.Cloudy	23	35	22	17	11	24	44	38	20	17
SOUTH	M.Clear	26	61	76	67	38	10	17	33	34	20
	M.Cloudy	12	31	43	40	21	8	17	29	30	19
WEST	M.Clear	8	14	16	59	79	10	17	18	39	72
	M.Cloudy	7	15	18	36	35	8	17	20	33	47
M.Clear	(% hrs)	36	37	38	37	38	45	48	40	34	39

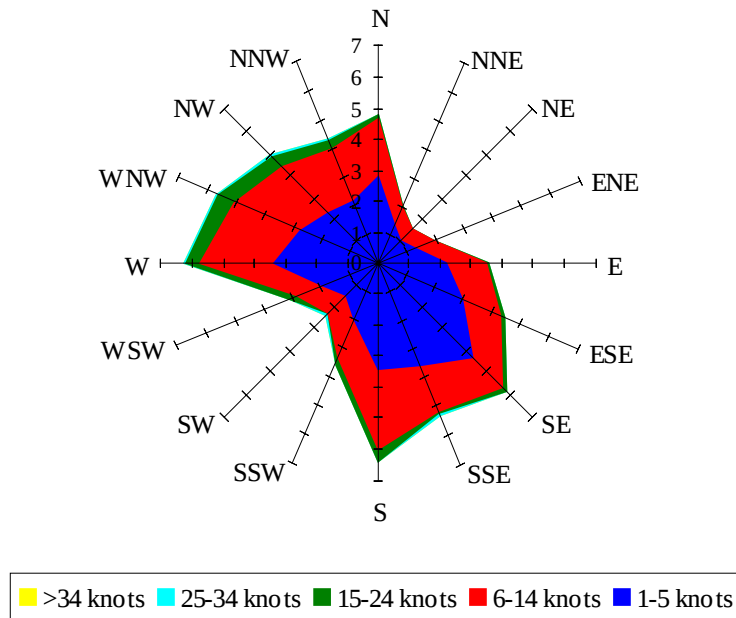
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	15	61	87	88	61	12	47	61	48	15
	M.Cloudy	10	37	62	64	42	7	26	35	29	10
NORTH	M.Clear	6	14	18	18	15	5	10	12	11	5
	M.Cloudy	5	14	19	19	15	3	10	13	11	5
EAST	M.Clear	40	76	45	18	15	40	53	14	11	5
	M.Cloudy	13	34	33	19	15	10	21	14	11	5
SOUTH	M.Clear	9	43	64	65	43	29	78	93	79	35
	M.Cloudy	5	23	42	45	27	8	26	36	32	12
WEST	M.Clear	6	14	18	41	71	5	10	12	51	45
	M.Cloudy	5	14	19	32	40	3	10	13	24	14
M.Clear	(% hrs)	45	45	40	36	43	37	37	39	38	39

Wind Summary - December, January, and February **Labels of Percent Frequency on North Axis**



Percent Calm = 32.38

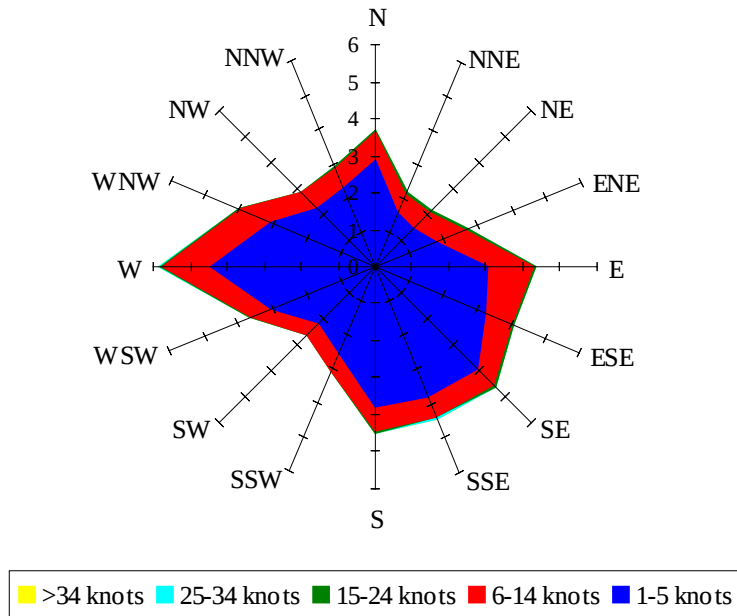
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 34.45

Wind Summary - June, July, and August

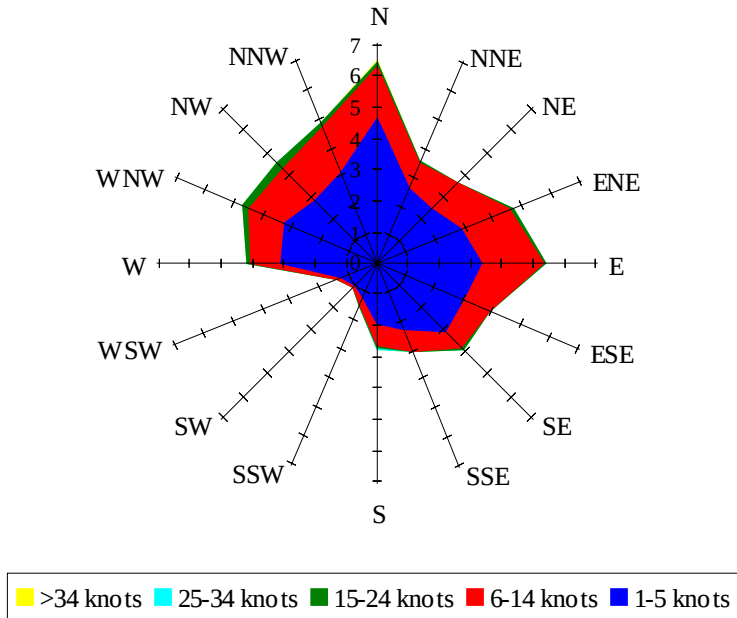
Labels of Percent Frequency on North Axis



Percent Calm = 42.56

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 40.96